

Title (en)
INSULIN DERIVATIVE

Title (de)
INSULINDERIVAT

Title (fr)
DÉRIVÉ D'INSULINE

Publication
EP 4086278 A4 20240807 (EN)

Application
EP 20908882 A 20201229

Priority
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Abstract (en)
[origin: EP4086278A1] Disclosed is an acylated insulin, a pharmaceutical formulation thereof, a pharmaceutical composition thereof with a long-acting GLP-1 compound, and a medical use of the acylated insulin, the pharmaceutical formulation and the pharmaceutical composition. Compared with insulin degludec or other insulin derivatives, the acylated insulin has an unexpected, significantly increased drug effect, a longer duration of action, a longer in vivo half-life, an excellent bioavailability, as well as better physical and chemical stabilities.

IPC 8 full level
C07K 14/62 (2006.01); **A61K 38/00** (2006.01); **A61K 38/28** (2006.01); **A61P 3/10** (2006.01)

CPC (source: CN EP KR US)
A61K 38/28 (2013.01 - CN KR US); **A61K 47/02** (2013.01 - US); **A61K 47/10** (2013.01 - US); **A61K 47/542** (2017.08 - CN); **A61P 3/00** (2018.01 - KR); **A61P 3/10** (2018.01 - CN EP US); **C07K 14/62** (2013.01 - CN EP KR US); **A61K 38/00** (2013.01 - EP)

Citation (search report)
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• [I] WO 2017032798 A1 20170302 - NOVO NORDISK AS [DK]
• [XI] WO 2009115469 A1 20090924 - NOVO NORDISK AS [DK], et al
• [XI] WO 2016119854 A1 20160804 - NOVO NORDISK AS [DK]
• [I] KURTZHALS P ET AL: "Albumin binding of insulins acylated with fatty acids: characterization of the ligand-protein interaction and correlation between binding affinity and timing of the insulin effect in vivo", BIOCHEMICAL JOURNAL, vol. 312, no. 3, 15 December 1995 (1995-12-15), GB, pages 725 - 731, XP093117299, ISSN: 0264-6021, DOI: 10.1042/bj3120725
• See also references of WO 2021136296A1

Designated contracting state (EPC)
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